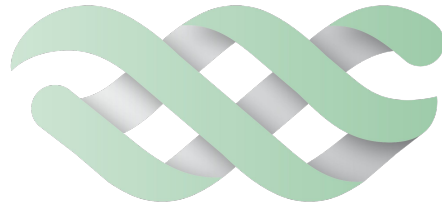


# Making Boeing-Sized Electric Planes Possible

June 2022



# FLYING AND THE ENVIRONMENT



The **opportunity** is equal to the problem

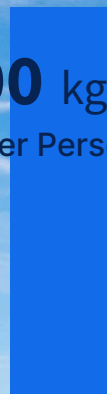
## Carbon Footprint

**460** kg CO<sub>2</sub>



Eat Meat  
for a Year

**700** kg CO<sub>2</sub>  
Per Person



A Single Round-Trip  
NY-Chicago Flight

# NEW PROPULSION → NEW PLANE

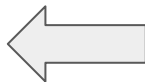


**Propulsion** technology leads aerospace innovation

## New Plane



Boeing 787



## ... From New Engine



GE GENx Engine

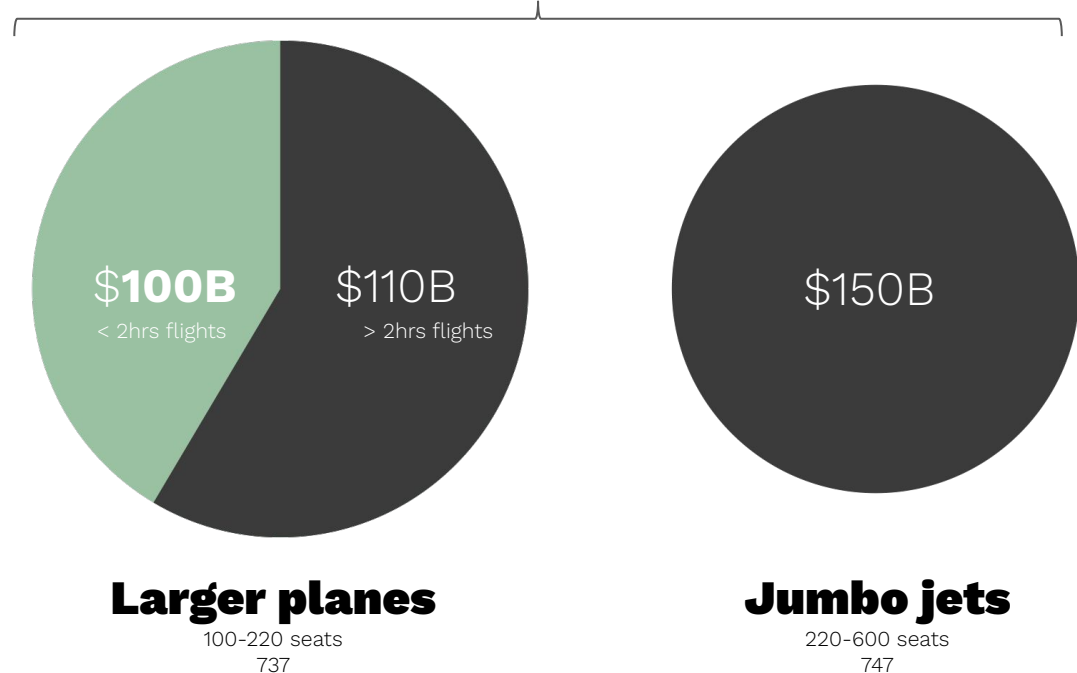
# AEROSPACE INDUSTRY



100+ seat planes are **98%** of the industry

Boeing: **\$100B**

Airbus: **\$80B**



## Smaller planes

2-100 seats  
ATR-72

## Larger planes

100-220 seats  
737

## Jumbo jets

220-600 seats  
747

\$360+ AEROSPACE INDUSTRY

# POWERTRAIN

**World** record-setting performance



- **3x** more powerful  
2 MW, permanent magnet motor, SiC inverter,  
40,000 ft altitude, ducted fan.
- **\$10M** in government contracts  
Early revenue wedge from Dept of Defense.
- In **FAA** validation  
Targeting certification in 2025-6.



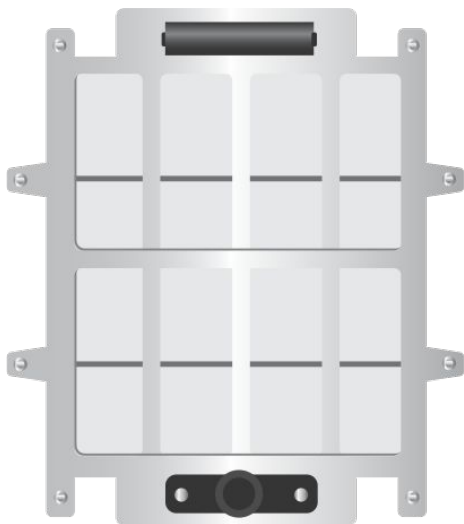
U.S. DEPARTMENT OF  
**ENERGY**



# ENERGY STORAGE



We're building prototypes in 2022-3



- **Aluminum-air** chemistry  
Aluminum-oxygen quick-swap design, greater than 1,000 wh / kg, 80% lighter than li-ion.
- **Hydrogen** fuel cells  
Ultra-lightweight designs already on the market in automotive applications.
- Used by the **military** for years  
These chemistries have deep experience in Dept of Defense and also commercial batteries such as hearing aids.

# THE WRIGHT SPIRIT

Coming 2026



- Retrofit of BAe 146
- 100 seats / 1 hr flights
- 90% less expensive GTM



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